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TECH CENTER 1600/2900

Wed Nov 21 09:15:05 2001 BLASTN 2.2.1 [Jul-12-2001], NCBI
Repeats masked (shown below)
/home/ruby/va/Molbio/carpenda/tempblast/ss.DNA59606 (2623 bp)

Sequences producing High-scoring Segment Pairs:	Frame	Score	Match
Pct E-val			
1 P_AAZ65056 Membrane-bound protein PRO1107 encoding	+	2623	2623
100 0.0			
2 P_AAS21469 Human cDNA sequence encoding for PRO1107	+	2623	2623
100 0.0			
3 P_AAF44202 Human PRO1107 (UNQ550) nucleotide sequen	+	2623	2623
100 0.0			
4 P_AAC58382 Human PRO1107 nucleotide sequence SEQ ID	+	2623	2623
100 0.0			
5 P_AAD12762 Human phosphodiesterase-1 (HPDE-1) cDNA.	+	2314	2350
100 0.0			
6 AX206904 Sequence 4 from Patent WO0155358. DNA,	+	2314	2350
100 0.0			

>1 P_AAZ65056 Membrane-bound protein PRO1107 encoding cDNA. (2623 bp) [1 seg]
Score = 2623.(5200 bits), Expect = 0.0
Identities = 2623/2623 (100%), at 1,1-2623,2623, Strand +/-

ss.DNA59606 1
TTGAGCGCAGGTGAGCTCCTGCGCGTTCCGGGGGCGTTCCTCCAGTCACCCTCCCGCCGT

P_AAZ65056 1
TTGAGCGCAGGTGAGCTCCTGCGCGTTCCGGGGGCGTTCCTCCAGTCACCCTCCCGCCGT

ss.DNA59606 61
TACCCGCGGCGCGCCCGAGGGAGTCTCCTCCAGACCCTCCCTCCCGTTGCTCCAAACTAA

P_AAZ65056 61
TACCCGCGGCGCGCCCGAGGGAGTCTCCTCCAGACCCTCCCTCCCGTTGCTCCAAACTAA

ss.DNA59606 121
TACGGACTGAACGGATCGCTGCGAGGGTGGGAGAGAAAATTAGGGGGAGAAAGGACAGAG

P_AAZ65056 121
TACGGACTGAACGGATCGCTGCGAGGGTGGGAGAGAAAATTAGGGGGAGAAAGGACAGAG

ss.DNA59606 181
AGAGCAACTACCATCCATAGCCAGATAGATTATCTTACACTGAACTGATCAAGTACTTTG

P_AAZ65056 181
AGAGCAACTACCATCCATAGCCAGATAGATTATCTTACACTGAACTGATCAAGTACTTTG

ss.DNA59606 241
AAAATGACTTCGAAATTTATCTTGGTGTCTTCATACTTGCTGCACTGAGTCTTTCAACC

P_AAZ65056 241

BLAST RESULTS A

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AAAATGACTTCGAAATTTATCTTGGTGTCTTCATACTTGCTGCACTGAGTCTTTCAACC
ss.DNA59606 301
ACCTTTTCTCTCCAAGTAGACCAGCAAAGGTTCTACTAGTTTCTTTTGATGGATTCCGT
*****
P_AAZ65056 301
ACCTTTTCTCTCCAAGTAGACCAGCAAAGGTTCTACTAGTTTCTTTTGATGGATTCCGT

ss.DNA59606 361
TGGGATTACTTATATAAAGTTCCAACGCCCCATTTTCATTATATTATGAAATATGGTGTT
*****
P_AAZ65056 361
TGGGATTACTTATATAAAGTTCCAACGCCCCATTTTCATTATATTATGAAATATGGTGTT

ss.DNA59606 421
CACGTGAAGCAAGTTACTAATGTTTTATTACAAAAACCTACCCTAACCATTATACTTTG
*****
P_AAZ65056 421
CACGTGAAGCAAGTTACTAATGTTTTATTACAAAAACCTACCCTAACCATTATACTTTG

ss.DNA59606 481
GTAAGTGGCTCTTTCAGAGAATCATGGGATTGTTGCAAATGATATGTTTGATCCTATT
*****
P_AAZ65056 481
GTAAGTGGCTCTTTCAGAGAATCATGGGATTGTTGCAAATGATATGTTTGATCCTATT

ss.DNA59606 541
CGGAACAAATCTTTCTCCTTGGATCAGATGAATATTTATGATTCCAAGTTTGGGAAGAA
*****
P_AAZ65056 541
CGGAACAAATCTTTCTCCTTGGATCAGATGAATATTTATGATTCCAAGTTTGGGAAGAA

ss.DNA59606 601
GCGACACCAATATGGATCACAACAGAGGGCAGGACATACTAGTGGTGCAGCCATGTGG
*****
P_AAZ65056 601
GCGACACCAATATGGATCACAACAGAGGGCAGGACATACTAGTGGTGCAGCCATGTGG

ss.DNA59606 661
CCCGAACAGATGTAAAAATACATAAGCGCTTTCCTACTCATTACATGCCTTACAATGAG
*****
P_AAZ65056 661
CCCGAACAGATGTAAAAATACATAAGCGCTTTCCTACTCATTACATGCCTTACAATGAG

ss.DNA59606 721
TCAGTTTCATTGAAGATAGAGTTGCCAAAATTGTTGAATGGTTTACGTCAAAGAGCCC
*****
P_AAZ65056 721
TCAGTTTCATTGAAGATAGAGTTGCCAAAATTGTTGAATGGTTTACGTCAAAGAGCCC

ss.DNA59606 781
ATAAATCTTGGTCTTCTCTATTGGGAAGACCCTGATGACATGGGCCACCATTGGGACCT

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BLAST RESULTS A-2

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*****
P_AA265056      781
ATAAATCTTGGTCTTCTCTATTGGAAGACCCTGATGACATGGGCCACCATTGGGACCT

ss.DNA59606      841
GACAGTCCGCTCATGGGGCCTGTCATTTAGATATTGACAAGAAGTTAGGATATCTCATA

*****
P_AA265056      841
GACAGTCCGCTCATGGGGCCTGTCATTTAGATATTGACAAGAAGTTAGGATATCTCATA

ss.DNA59606      901
CAAATGCTGAAAAGGCAAAGTTGTGGAACACTCTGAACCTAATCATCACAAGTGATCAT

*****
P_AA265056      901
CAAATGCTGAAAAGGCAAAGTTGTGGAACACTCTGAACCTAATCATCACAAGTGATCAT

ss.DNA59606      961
GGAATGACGCAGTGCTCTGAGGAAAGGTTAATAGAACTTGACCAGTACCTGGATAAAGAC

*****
P_AA265056      961
GGAATGACGCAGTGCTCTGAGGAAAGGTTAATAGAACTTGACCAGTACCTGGATAAAGAC

ss.DNA59606     1021
CACTATACCCTGATTGATCAATCTCCAGTAGCAGCCATCTTGCCAAAAGAAGGTAAATTT

*****
P_AA265056     1021
CACTATACCCTGATTGATCAATCTCCAGTAGCAGCCATCTTGCCAAAAGAAGGTAAATTT

ss.DNA59606     1081
GATGAAGTCTATGAAGCACTAACTCAGCTCATCCTAATCTTACTGTTTACAAAAAGAA

*****
P_AA265056     1081
GATGAAGTCTATGAAGCACTAACTCAGCTCATCCTAATCTTACTGTTTACAAAAAGAA

ss.DNA59606     1141
GACGTTCCAGAAAGGTGGCATTACAAATACAACAGTCGAATTCAACCAATCATAGCAGTG

*****
P_AA265056     1141
GACGTTCCAGAAAGGTGGCATTACAAATACAACAGTCGAATTCAACCAATCATAGCAGTG

ss.DNA59606     1201
GCTGATGAAGGTGGCACATTTTACAGAATAAGTCAGATGACTTTCTGTTAGGCAACCAC

*****
P_AA265056     1201
GCTGATGAAGGTGGCACATTTTACAGAATAAGTCAGATGACTTTCTGTTAGGCAACCAC

ss.DNA59606     1261
GGTTACGATAATGCGTTAGCAGATATGCATCCAATATTTTTAGCCCATGGTCCTGCCTTC

*****
P_AA265056     1261
GGTTACGATAATGCGTTAGCAGATATGCATCCAATATTTTTAGCCCATGGTCCTGCCTTC

ss.DNA59606     1321

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BLAST RESULTS A-3

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AGAAAGAATTTCTCAAAGAAGCCATGAACTCCACAGATTTGTACCCACTACTATGCCAC
*****
P_AAZ65056 1321
AGAAAGAATTTCTCAAAGAAGCCATGAACTCCACAGATTTGTACCCACTACTATGCCAC

ss.DNA59606 1381
CTCCTCAATATCACTGCCATGCCACACAATGGATCATTCTGGAATGTCCAGGATCTGCTC
*****
P_AAZ65056 1381
CTCCTCAATATCACTGCCATGCCACACAATGGATCATTCTGGAATGTCCAGGATCTGCTC

ss.DNA59606 1441
AATTTCAGCAATGCCAAGGGTGGTCCCTTATACACAGAGTACTATACTCCTCCCTGGTAGT
*****
P_AAZ65056 1441
AATTTCAGCAATGCCAAGGGTGGTCCCTTATACACAGAGTACTATACTCCTCCCTGGTAGT

ss.DNA59606 1501
GTTAAACCAGCAGAATATGACCAAGAGGGGTCATACCCTTATTTTCATAGGGGTCTCTCTT
*****
P_AAZ65056 1501
GTTAAACCAGCAGAATATGACCAAGAGGGGTCATACCCTTATTTTCATAGGGGTCTCTCTT

ss.DNA59606 1561
GGCAGCATTATAGTGATTGTATTTTTTTGTAATTTTCATTAAGCATTTAATTCACAGTCAA
*****
P_AAZ65056 1561
GGCAGCATTATAGTGATTGTATTTTTTTGTAATTTTCATTAAGCATTTAATTCACAGTCAA

ss.DNA59606 1621
ATACCTGCCTTACAAGATATGCATGCTGAAATAGCTCAACCATTATTACAAGCCTAATGT
*****
P_AAZ65056 1621
ATACCTGCCTTACAAGATATGCATGCTGAAATAGCTCAACCATTATTACAAGCCTAATGT

ss.DNA59606 1681
TACTTTGAAGTGGATTGTCATATTGAAGTGGAGATTCCATAATTATGTCAGTGTTTAAAG
*****
P_AAZ65056 1681
TACTTTGAAGTGGATTGTCATATTGAAGTGGAGATTCCATAATTATGTCAGTGTTTAAAG

ss.DNA59606 1741
GTTTCAAATTCTGGGAAACCAGTTCCAAACATCTGCAGAAACCATTAAAGCAGTTACATAT
*****
P_AAZ65056 1741
GTTTCAAATTCTGGGAAACCAGTTCCAAACATCTGCAGAAACCATTAAAGCAGTTACATAT

ss.DNA59606 1801
TTAGGTATACACACACACACACACACATACACACACACGGACCAAATACTTACAC
*****
P_AAZ65056 1801
TTAGGTATACACACACACACACACACACATACACACACACGGACCAAATACTTACAC

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BLAST RESULTS A-4

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ss.DNA59606 1861
CTGCAAAGGAATAAAGATGTGAGAGTATGTCTCCATTGTTCACTGTAGCATAGGGATAGA
*****
P_AAZ65056 1861
CTGCAAAGGAATAAAGATGTGAGAGTATGTCTCCATTGTTCACTGTAGCATAGGGATAGA

ss.DNA59606 1921
TAAGATCCTGCTTTATTTGGACTTGGCGCAGATAATGTATATATTTAGCAACTTTGCACT
*****
P_AAZ65056 1921
TAAGATCCTGCTTTATTTGGACTTGGCGCAGATAATGTATATATTTAGCAACTTTGCACT

ss.DNA59606 1981
ATGTAAAGTACCTTATATATTGCACTTTAAATTTCTCTCCTGATGGGTACTTTAATTTGA
*****
P_AAZ65056 1981
ATGTAAAGTACCTTATATATTGCACTTTAAATTTCTCTCCTGATGGGTACTTTAATTTGA

ss.DNA59606 2041
AATGCACTTTTATGGACAGTTATGTCTTATAACTTGATTGAAAATGACAACTTTTTGCACC
*****
P_AAZ65056 2041
AATGCACTTTTATGGACAGTTATGTCTTATAACTTGATTGAAAATGACAACTTTTTGCACC

ss.DNA59606 2101
CATGTCACAGAATACTTGTTACGCATTGTTCAAACCTGAAGGAAATTTCTAATAATCCCGA
*****
P_AAZ65056 2101
CATGTCACAGAATACTTGTTACGCATTGTTCAAACCTGAAGGAAATTTCTAATAATCCCGA

ss.DNA59606 2161
ATAATGAACATAGAAATCTATCTCCATAAATTGAGAGAAGAAGAAGGTGATAAGTGTGTA
*****
P_AAZ65056 2161
ATAATGAACATAGAAATCTATCTCCATAAATTGAGAGAAGAAGAAGGTGATAAGTGTGTA

ss.DNA59606 2221
AAATTAAATGTGATAACCTTTGAACCTTGAATTTTGGAGATGTATTCCCAACAGCAGAAT
*****
P_AAZ65056 2221
AAATTAAATGTGATAACCTTTGAACCTTGAATTTTGGAGATGTATTCCCAACAGCAGAAT

ss.DNA59606 2281
GCAACTGTGGGCATTTCTTGTCTTATTTCTTTCCAGAGAACGTGGTTTTTCATTTATTTTT
*****
P_AAZ65056 2281
GCAACTGTGGGCATTTCTTGTCTTATTTCTTTCCAGAGAACGTGGTTTTTCATTTATTTTT

ss.DNA59606 2341
CCCTCAAAGAGAGTCAAATACTGACAGATTCGTTCTAAATATATTGTTTCTGTCATAAA
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BLAST RESULTS A-S

P_AAZ65056 2341
 CCTCAAAGAGAGTCAAATACTGACAGATTCGTTCTAAATATATTGTTTCTGTCATAAA

ss.DNA59606 2401
 ATTATTGTGATTTCTGATGAGTCATATTACTGTGATTTTCATAATAATGAAGACACCAT

P_AAZ65056 2401
 ATTATTGTGATTTCTGATGAGTCATATTACTGTGATTTTCATAATAATGAAGACACCAT

ss.DNA59606 2461
 GAATATACTTTTCTTCTATATAGTTCAGCAATGGCCTGAATAGAAGCAACCAGGCACCAT

P_AAZ65056 2461
 GAATATACTTTTCTTCTATATAGTTCAGCAATGGCCTGAATAGAAGCAACCAGGCACCAT

ss.DNA59606 2521
 CTCAGCAATGTTTTCTCTTGTGTAATTATTTGCTCCTTTGAAAATTAAATCACTATTA

P_AAZ65056 2521
 CTCAGCAATGTTTTCTCTTGTGTAATTATTTGCTCCTTTGAAAATTAAATCACTATTA

ss.DNA59606 2581 ATTACATTAAAAATCAAATTGGATAAAAAAAAAAAAAAAAAAAAA

P_AAZ65056 2581 ATTACATTAAAAATCAAATTGGATAAAAAAAAAAAAAAAAAAAAA

>2 P_AAS21469 Human cDNA sequence encoding for PRO1107 polypeptide.
 (2623 bp) [1 seg]
 Score = 2623 (5200 bits), Expect = 0.0
 Identities = 2623/2623 (100%), at 1,1-2623,2623, Strand +/-

ss.DNA59606 1
 TTGAGCGCAGGTGAGCTCCTGCGCGTTCCGGGGGCGTTCCTCCAGTCACCCCTCCCGCCGT

P_AAS21469 1
 TTGAGCGCAGGTGAGCTCCTGCGCGTTCCGGGGGCGTTCCTCCAGTCACCCCTCCCGCCGT

ss.DNA59606 61
 TACCCGCGGCGCGCCCGAGGGAGTCTCCTCCAGACCCTCCCTCCCGTTGCTCCAAACTAA

P_AAS21469 61
 TACCCGCGGCGCGCCCGAGGGAGTCTCCTCCAGACCCTCCCTCCCGTTGCTCCAAACTAA

ss.DNA59606 121
 TACGGACTGAACGGATCGCTGCGAGGGTGGGAGAGAAAATTAGGGGGAGAAAGGACAGAG

P_AAS21469 121
 TACGGACTGAACGGATCGCTGCGAGGGTGGGAGAGAAAATTAGGGGGAGAAAGGACAGAG

ss.DNA59606 181
 AGAGCAACTACCATCCATAGCCAGATAGATTATCTTACACTGAACTGATCAAGTACTTTG

P_AAS21469 181
 AGAGCAACTACCATCCATAGCCAGATAGATTATCTTACACTGAACTGATCAAGTACTTTG

BLAST RESULTS A-U

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ss.DNA59606   241
AAAATGACTTCGAAATTTATCTTGGTGTCTTCATACTTGCTGCACTGAGTCTTTCAACC

*****
P_AAS21469     241
AAAATGACTTCGAAATTTATCTTGGTGTCTTCATACTTGCTGCACTGAGTCTTTCAACC

ss.DNA59606   301
ACCTTTTCTCTCCAAC TAGACCAGCAAAAGGTTCTACTAGTTTCTTTTGATGGATTCCGT

*****
P_AAS21469     301
ACCTTTTCTCTCCAAC TAGACCAGCAAAAGGTTCTACTAGTTTCTTTTGATGGATTCCGT

ss.DNA59606   361
TGGGATTACTTATATAAAGTTCCAACGCCCCATTTTCATTATATTATGAAATATGGTGTT

*****
P_AAS21469     361
TGGGATTACTTATATAAAGTTCCAACGCCCCATTTTCATTATATTATGAAATATGGTGTT

ss.DNA59606   421
CACGTGAAGCAAGTTACTAATGTTTTATTACAAAACCTACCCTAACCATTATACTTTG

*****
P_AAS21469     421
CACGTGAAGCAAGTTACTAATGTTTTATTACAAAACCTACCCTAACCATTATACTTTG

ss.DNA59606   481
GTAAGTGGCCTCTTTGCAGAGAATCATGGGATTGTTGCAAATGATATGTTTGATCCTATT

*****
P_AAS21469     481
GTAAGTGGCCTCTTTGCAGAGAATCATGGGATTGTTGCAAATGATATGTTTGATCCTATT

ss.DNA59606   541
CGGAACAAATCTTTCTCCTTGGATCACATGAATATTTATGATTCCAAGTTTGGGAAGAA

*****
P_AAS21469     541
CGGAACAAATCTTTCTCCTTGGATCACATGAATATTTATGATTCCAAGTTTGGGAAGAA

ss.DNA59606   601
GCGACACCAATATGGATCACAAACCAGAGGGCAGGACATACTAGTGGTGCAGCCATGTGG

*****
P_AAS21469     601
GCGACACCAATATGGATCACAAACCAGAGGGCAGGACATACTAGTGGTGCAGCCATGTGG

ss.DNA59606   661
CCCGGAACAGATGTAAAAATACATAAGCGCTTTCCTACTCATTACATGCCTTACAATGAG

*****
P_AAS21469     661
CCCGGAACAGATGTAAAAATACATAAGCGCTTTCCTACTCATTACATGCCTTACAATGAG

ss.DNA59606   721
TCAGTTTCATTTGAAGATAGAGTTGCCAAAATTGTTGAATGGTTTACGTCAAAGAGCCC

*****
P_AAS21469     721

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BLAST RESULTS A-7

TCAGTTTCATTTGAAGATAGAGTTGCCAAAATTGTTGAATGGTTTACGTCAAAAAGAGCCC

ss.DNA59606 781
ATAAATCTTGGTCTTCTCTATTGGGAAGACCCTGATGACATGGGCCACCATTGGGACCT

P_AAS21469 781
ATAAATCTTGGTCTTCTCTATTGGGAAGACCCTGATGACATGGGCCACCATTGGGACCT

ss.DNA59606 841
GACAGTCCGCTCATGGGGCCTGTCATTTGAGATATTGACAAGAAGTTAGGATATCTCATA

P_AAS21469 841
GACAGTCCGCTCATGGGGCCTGTCATTTGAGATATTGACAAGAAGTTAGGATATCTCATA

ss.DNA59606 901
CAAATGCTGAAAAAGGCAAAGTTGTGGAACACTCTGAACCTAATCATCACAAGTGATCAT

P_AAS21469 901
CAAATGCTGAAAAAGGCAAAGTTGTGGAACACTCTGAACCTAATCATCACAAGTGATCAT

ss.DNA59606 961
GGAATGACGCAGTGCTCTGAGGAAAGGTTAATAGAACTTGACCAGTACCTGGATAAAGAC

P_AAS21469 961
GGAATGACGCAGTGCTCTGAGGAAAGGTTAATAGAACTTGACCAGTACCTGGATAAAGAC

ss.DNA59606 1021
CACTATACCCTGATTGATCAATCTCCAGTAGCAGCCATCTTGCCAAAAGAAGGTAAATTT

P_AAS21469 1021
CACTATACCCTGATTGATCAATCTCCAGTAGCAGCCATCTTGCCAAAAGAAGGTAAATTT

ss.DNA59606 1081
GATGAAGTCTATGAAGCACTAACTCACGCTCATCCTAATCTTACTGTTTACAAAAAGAA

P_AAS21469 1081
GATGAAGTCTATGAAGCACTAACTCACGCTCATCCTAATCTTACTGTTTACAAAAAGAA

ss.DNA59606 1141
GACGTTCCAGAAAGGTGGCATTACAAATACAACAGTCGAATTCAACCAATCATAGCAGTG

P_AAS21469 1141
GACGTTCCAGAAAGGTGGCATTACAAATACAACAGTCGAATTCAACCAATCATAGCAGTG

ss.DNA59606 1201
GCTGATGAAGGGTGGCACATTTTACAGAATAAGTCAGATGACTTTCTGTTAGGCAACCAC

P_AAS21469 1201
GCTGATGAAGGGTGGCACATTTTACAGAATAAGTCAGATGACTTTCTGTTAGGCAACCAC

ss.DNA59606 1261
GGTTACGATAATGCGTTAGCAGATATGCATCCAATATTTTAGCCCATGGTCCTGCCTTC

Blast Results A-8


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*****
P_AAS21469 1261
GGTTACGATAATGCGTTAGCAGATATGCATCCAATATTTTAGCCCATGGTCCTGCCTTC

ss.DNA59606 1321
AGAAAGAATTTCTCAAAAGAAGCCATGAACTCCACAGATTGTACCCACTACTATGCCAC

*****
P_AAS21469 1321
AGAAAGAATTTCTCAAAAGAAGCCATGAACTCCACAGATTGTACCCACTACTATGCCAC

ss.DNA59606 1381
CTCCTCAATATCACTGCCATGCCACACAATGGATCATTCTGGAATGTCCAGGATCTGCTC

*****
P_AAS21469 1381
CTCCTCAATATCACTGCCATGCCACACAATGGATCATTCTGGAATGTCCAGGATCTGCTC

ss.DNA59606 1441
AATTCAGCAATGCCAAGGGTGGTCCCTTATACACAGAGTACTATACTCCTCCCTGGTAGT

*****
P_AAS21469 1441
AATTCAGCAATGCCAAGGGTGGTCCCTTATACACAGAGTACTATACTCCTCCCTGGTAGT

ss.DNA59606 1501
GTTAAACCAGCAGAATATGACCAAGAGGGGTCATACCCTTATTTTCATAGGGGTCTCTCTT

*****
P_AAS21469 1501
GTTAAACCAGCAGAATATGACCAAGAGGGGTCATACCCTTATTTTCATAGGGGTCTCTCTT

ss.DNA59606 1561
GGCAGCATTATAGTGATTGTATTTTTTGTAAATTTTCATTAAGCATTTAATTCACAGTCAA

*****
P_AAS21469 1561
GGCAGCATTATAGTGATTGTATTTTTTGTAAATTTTCATTAAGCATTTAATTCACAGTCAA

ss.DNA59606 1621
ATACCTGCCTTACAAGATATGCATGCTGAAATAGCTCAACCATTATTACAAGCCTAATGT

*****
P_AAS21469 1621
ATACCTGCCTTACAAGATATGCATGCTGAAATAGCTCAACCATTATTACAAGCCTAATGT

ss.DNA59606 1681
TACTTTGAAGTGGATTGTCATATTGAAGTGGAGATTCCATAATTATGTCAGTGTTTAAAG

*****
P_AAS21469 1681
TACTTTGAAGTGGATTGTCATATTGAAGTGGAGATTCCATAATTATGTCAGTGTTTAAAG

ss.DNA59606 1741
GTTTCAAATTCTGGGAAACCAGTTCCAAACATCTGCAGAAACCATTAAGCAGTTACATAT

*****
P_AAS21469 1741
GTTTCAAATTCTGGGAAACCAGTTCCAAACATCTGCAGAAACCATTAAGCAGTTACATAT

ss.DNA59606 1801

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BLAST RESULTS A-9

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TTAGGTATACACACACACACACACACACATACACACACACGACCAAATACTTACAC
*****
P_AAS21469 1801
TTAGGTATACACACACACACACACACACATACACACACACGACCAAATACTTACAC

ss.DNA59606 1861
CTGCAAAGGAATAAAGATGTGAGAGTATGTCTCCATTGTTCACTGTAGCATAGGGATAGA
*****
P_AAS21469 1861
CTGCAAAGGAATAAAGATGTGAGAGTATGTCTCCATTGTTCACTGTAGCATAGGGATAGA

ss.DNA59606 1921
TAAGATCCTGCTTTATTTGGACTTGGCGCAGATAATGTATATATTTAGCAACTTTGCACT
*****
P_AAS21469 1921
TAAGATCCTGCTTTATTTGGACTTGGCGCAGATAATGTATATATTTAGCAACTTTGCACT

ss.DNA59606 1981
ATGTAAAGTACCTTATATATTGCACTTTAAATTTCTCTCCTGATGGGTACTTTAATTTGA
*****
P_AAS21469 1981
ATGTAAAGTACCTTATATATTGCACTTTAAATTTCTCTCCTGATGGGTACTTTAATTTGA

ss.DNA59606 2041
AATGCACTTTATGGACAGTTATGTCTTATAACTTGATTGAAAATGACAACTTTTTGCACC
*****
P_AAS21469 2041
AATGCACTTTATGGACAGTTATGTCTTATAACTTGATTGAAAATGACAACTTTTTGCACC

ss.DNA59606 2101
CATGTACACAGAATACTTGTTACGCATTGTTCAAACCTGAAGGAAATTTCTAATAATCCCGA
*****
P_AAS21469 2101
CATGTACACAGAATACTTGTTACGCATTGTTCAAACCTGAAGGAAATTTCTAATAATCCCGA

ss.DNA59606 2161
ATAATGAACATAGAAATCTATCTCCATAAATTGAGAGAAGAAGAAGGTGATAAGTGTTGA
*****
P_AAS21469 2161
ATAATGAACATAGAAATCTATCTCCATAAATTGAGAGAAGAAGAAGGTGATAAGTGTTGA

ss.DNA59606 2221
AAATTAAATGTGATAACCTTTGAACCTTGAATTTTGGAGATGTATTCCCAACAGCAGAAT
*****
P_AAS21469 2221
AAATTAAATGTGATAACCTTTGAACCTTGAATTTTGGAGATGTATTCCCAACAGCAGAAT

ss.DNA59606 2281
GCAACTGTGGGCATTTCTTGTCTTATTTCTTTCCAGAGAACGTGGTTTTTCATTTATTTTT
*****
P_AAS21469 2281
GCAACTGTGGGCATTTCTTGTCTTATTTCTTTCCAGAGAACGTGGTTTTTCATTTATTTTT

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BLAST RESULTS A10

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ss.DNA59606 2341
CCCTCAAAAGAGAGTCAAATACTGACAGATTCGTTCTAAATATATTGTTTCTGTCATAAA
*****
P_AAS21469 2341
CCCTCAAAAGAGAGTCAAATACTGACAGATTCGTTCTAAATATATTGTTTCTGTCATAAA

ss.DNA59606 2401
ATTATTGTGATTTCTGATGAGTCATATTACTGTGATTTTCATAATAATGAAGACACCAT
*****
P_AAS21469 2401
ATTATTGTGATTTCTGATGAGTCATATTACTGTGATTTTCATAATAATGAAGACACCAT

ss.DNA59606 2461
GAATATACTTTTCTTCTATATAGTTCAGCAATGGCCTGAATAGAAGCAACCAGGCACCAT
*****
P_AAS21469 2461
GAATATACTTTTCTTCTATATAGTTCAGCAATGGCCTGAATAGAAGCAACCAGGCACCAT

ss.DNA59606 2521
CTCAGCAATGTTTTCTCTTGTGTAATTATTTGCTCCTTTGAAAATTAAATCACTATTA
*****
P_AAS21469 2521
CTCAGCAATGTTTTCTCTTGTGTAATTATTTGCTCCTTTGAAAATTAAATCACTATTA

ss.DNA59606 2581 ATTACATTAAAAATCAAATTGGATAAAAAAAAAAAAAAAAAAAAA
*****
P_AAS21469 2581 ATTACATTAAAAATCAAATTGGATAAAAAAAAAAAAAAAAAAAAA

>3 P_AAF44202 Human PRO1107 (UNQ550) nucleotide sequence SEQ ID NO:284.
(2623 bp) [1 seg]
Score = 2623 (5200 bits), Expect = 0.0
Identities = 2623/2623 (100%), at 1,1-2623,2623, Strand +/-

ss.DNA59606 1
TTGAGCGCAGGTGAGCTCCTGCGCGTTCCGGGGGCGTTCCTCCAGTCACCCTCCCGCCGT
*****
P_AAF44202 1
TTGAGCGCAGGTGAGCTCCTGCGCGTTCCGGGGGCGTTCCTCCAGTCACCCTCCCGCCGT

ss.DNA59606 61
TACCCGCGGCGCGCCCGAGGGAGTCTCCTCCAGACCCTCCCTCCCGTTGCTCCAAACTAA
*****
P_AAF44202 61
TACCCGCGGCGCGCCCGAGGGAGTCTCCTCCAGACCCTCCCTCCCGTTGCTCCAAACTAA

ss.DNA59606 121
TACGGACTGAACGGATCGCTGCGAGGGTGGGAGAGAAAATTAGGGGGAGAAAGGACAGAG
*****
P_AAF44202 121
TACGGACTGAACGGATCGCTGCGAGGGTGGGAGAGAAAATTAGGGGGAGAAAGGACAGAG

ss.DNA59606 181
AGAGCAACTACCATCCATAGCCAGATAGATTATCTTACACTGAACTGATCAAGTACTTTG

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BLAST RESULTS A-11

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*****
P_AAF44202    181
AGAGCAACTACCATCCATAGCCAGATAGATTATCTTACACTGAACTGATCAAGTACTTTG

ss.DNA59606    241
AAAATGACTTCGAAATTTATCTTGGTGTCTTCATACTTGCTGCACTGAGTCTTTCAACC

*****
P_AAF44202    241
AAAATGACTTCGAAATTTATCTTGGTGTCTTCATACTTGCTGCACTGAGTCTTTCAACC

ss.DNA59606    301
ACCTTTTCTCTCCAAGTAGACCAGCAAAGGTTCTACTAGTTTCTTTTGATGGATTCCGT

*****
P_AAF44202    301
ACCTTTTCTCTCCAAGTAGACCAGCAAAGGTTCTACTAGTTTCTTTTGATGGATTCCGT

ss.DNA59606    361
TGGGATTACTTATATAAAGTTCCAACGCCCCATTTTCATTATATTATGAAATATGGTGTT

*****
P_AAF44202    361
TGGGATTACTTATATAAAGTTCCAACGCCCCATTTTCATTATATTATGAAATATGGTGTT

ss.DNA59606    421
CACGTGAAGCAAGTTACTAATGTTTTATTACAAAACCTACCCTAACCATTATACTTTG

*****
P_AAF44202    421
CACGTGAAGCAAGTTACTAATGTTTTATTACAAAACCTACCCTAACCATTATACTTTG

ss.DNA59606    481
GTAAGTGGCTCTTTGCAGAGAATCATGGGATTGTTGCAAATGATATGTTTGATCCTATT

*****
P_AAF44202    481
GTAAGTGGCTCTTTGCAGAGAATCATGGGATTGTTGCAAATGATATGTTTGATCCTATT

ss.DNA59606    541
CGGAACAAATCTTTCTCCTTGGATCACATGAATATTTATGATTCCAAGTTTGGGAAGAA

*****
P_AAF44202    541
CGGAACAAATCTTTCTCCTTGGATCACATGAATATTTATGATTCCAAGTTTGGGAAGAA

ss.DNA59606    601
GCGACACCAATATGGATCACAAACCAGAGGGCAGGACATACTAGTGGTGCAGCCATGTGG

*****
P_AAF44202    601
GCGACACCAATATGGATCACAAACCAGAGGGCAGGACATACTAGTGGTGCAGCCATGTGG

ss.DNA59606    661
CCCGGAACAGATGTAAAAATACATAAGCGCTTTCTACTCATTACATGCCTTACAATGAG

*****
P_AAF44202    661
CCCGGAACAGATGTAAAAATACATAAGCGCTTTCTACTCATTACATGCCTTACAATGAG

```

BLAST RESULTS A-12

```

ss.DNA59606 721
TCAGTTTCATTGAAGATAGAGTTGCCAAAATTGTTGAATGGTTTACGTCAAAGAGCCC
*****
P_AAF44202 721
TCAGTTTCATTGAAGATAGAGTTGCCAAAATTGTTGAATGGTTTACGTCAAAGAGCCC

ss.DNA59606 781
ATAAATCTGGTCTTCTCTATTGGGAAGACCCTGATGACATGGGCCACCATTGGGACCT
*****
P_AAF44202 781
ATAAATCTGGTCTTCTCTATTGGGAAGACCCTGATGACATGGGCCACCATTGGGACCT

ss.DNA59606 841
GACAGTCCGCTCATGGGGCCTGTCATTTAGATATTGACAAGAAGTTAGGATATCTCATA
*****
P_AAF44202 841
GACAGTCCGCTCATGGGGCCTGTCATTTAGATATTGACAAGAAGTTAGGATATCTCATA

ss.DNA59606 901
CAAATGCTGAAAAGGCAAAGTTGTGGAACACTCTGAACCTAATCATCACAAGTGATCAT
*****
P_AAF44202 901
CAAATGCTGAAAAGGCAAAGTTGTGGAACACTCTGAACCTAATCATCACAAGTGATCAT

ss.DNA59606 961
GGAATGACGCAGTGCTCTGAGGAAAGGTTAATAGAACTTGACCAGTACCTGGATAAAGAC
*****
P_AAF44202 961
GGAATGACGCAGTGCTCTGAGGAAAGGTTAATAGAACTTGACCAGTACCTGGATAAAGAC

ss.DNA59606 1021
CACTATACCCTGATTGATCAATCTCCAGTAGCAGCCATCTTGCCAAAAGAAGGTAAATTT
*****
P_AAF44202 1021
CACTATACCCTGATTGATCAATCTCCAGTAGCAGCCATCTTGCCAAAAGAAGGTAAATTT

ss.DNA59606 1081
GATGAAGTCTATGAAGCACTAACTCACGCTCATCCTAATCTTACTGTTTACAAAAAGAA
*****
P_AAF44202 1081
GATGAAGTCTATGAAGCACTAACTCACGCTCATCCTAATCTTACTGTTTACAAAAAGAA

ss.DNA59606 1141
GACGTTCCAGAAAGGTGGCATTACAAATACAACAGTCGAATTCAACCAATCATAGCAGTG
*****
P_AAF44202 1141
GACGTTCCAGAAAGGTGGCATTACAAATACAACAGTCGAATTCAACCAATCATAGCAGTG

ss.DNA59606 1201
GCTGATGAAGGGTGGCACATTTTACAGAATAAGTCAGATGACTTTCTGTTAGGCAACCAC
*****
P_AAF44202 1201

```

BLAST RESULTS A-13

GCTGATGAAGGGTGGCACATTTTACAGAATAAGTCAGATGACTTTCTGTTAGGCAACCAC

ss.DNA59606 1261
GGTTACGATAATGCGTTAGCAGATATGCATCCAATATTTTATAGCCCATGGTCCTGCCTTC

P_AAF44202 1261
GGTTACGATAATGCGTTAGCAGATATGCATCCAATATTTTATAGCCCATGGTCCTGCCTTC

ss.DNA59606 1321
AGAAAGAATTTCTCAAAGAAGCCATGAACTCCACAGATTTGTACCCACTACTATGCCAC

P_AAF44202 1321
AGAAAGAATTTCTCAAAGAAGCCATGAACTCCACAGATTTGTACCCACTACTATGCCAC

ss.DNA59606 1381
CTCCTCAATATCACTGCCATGCCACACAATGGATCATTCTGGAATGTCCAGGATCTGCTC

P_AAF44202 1381
CTCCTCAATATCACTGCCATGCCACACAATGGATCATTCTGGAATGTCCAGGATCTGCTC

ss.DNA59606 1441
AATTTCAGCAATGCCAAGGGTGGTCCCTTATACACAGAGTACTATACTCCTCCCTGGTAGT

P_AAF44202 1441
AATTTCAGCAATGCCAAGGGTGGTCCCTTATACACAGAGTACTATACTCCTCCCTGGTAGT

ss.DNA59606 1501
GTTAAACCAGCAGAATATGACCAAGAGGGGTCATACCCTTATTTTCATAGGGGTCTCTCTT

P_AAF44202 1501
GTTAAACCAGCAGAATATGACCAAGAGGGGTCATACCCTTATTTTCATAGGGGTCTCTCTT

ss.DNA59606 1561
GGCAGCATTATAGTGATTGTATTTTTTGTAAATTTTCATTAAGCATTTAATTCACAGTCAA

P_AAF44202 1561
GGCAGCATTATAGTGATTGTATTTTTTGTAAATTTTCATTAAGCATTTAATTCACAGTCAA

ss.DNA59606 1621
ATACCTGCCTTACAAGATATGCATGCTGAAATAGCTCAACCATTATTACAAGCCTAATGT

P_AAF44202 1621
ATACCTGCCTTACAAGATATGCATGCTGAAATAGCTCAACCATTATTACAAGCCTAATGT

ss.DNA59606 1681
TACTTTGAAGTGGATTTGCATATTGAAGTGGAGATTCCATAATTATGTCAGTGTTTAAAG

P_AAF44202 1681
TACTTTGAAGTGGATTTGCATATTGAAGTGGAGATTCCATAATTATGTCAGTGTTTAAAG

ss.DNA59606 1741
GTTTCAAATTCTGGGAAACCAGTTCCAAACATCTGCAGAAACCATTAAGCAGTTACATAT

BLAST RESULTS A-K

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*****
P_AAF44202 1741
GTTTCAAATTCTGGGAAACCAGTTCCAAACATCTGCAGAAACCATTAAGCAGTTACATAT

ss.DNA59606 1801
TTAGGTATACACACACACACACACACACATACACACACACGGACCAAATACTTACAC

*****
P_AAF44202 1801
TTAGGTATACACACACACACACACACACATACACACACACGGACCAAATACTTACAC

ss.DNA59606 1861
CTGCAAAGGAATAAGATGTGAGAGTATGTCTCCATTGTTCACTGTAGCATAGGGATAGA

*****
P_AAF44202 1861
CTGCAAAGGAATAAGATGTGAGAGTATGTCTCCATTGTTCACTGTAGCATAGGGATAGA

ss.DNA59606 1921
TAAGATCCTGCTTTATTTGGACTTGGCGCAGATAATGTATATATTTAGCAACTTTGCACT

*****
P_AAF44202 1921
TAAGATCCTGCTTTATTTGGACTTGGCGCAGATAATGTATATATTTAGCAACTTTGCACT

ss.DNA59606 1981
ATGTAAAGTACCTTATATATTGCACTTTAAATTTCTCTCCTGATGGGTACTTTAATTTGA

*****
P_AAF44202 1981
ATGTAAAGTACCTTATATATTGCACTTTAAATTTCTCTCCTGATGGGTACTTTAATTTGA

ss.DNA59606 2041
AATGCACTTTATGGACAGTTATGTCTTATAACTTGATTGAAAATGACAACTTTTTGCACC

*****
P_AAF44202 2041
AATGCACTTTATGGACAGTTATGTCTTATAACTTGATTGAAAATGACAACTTTTTGCACC

ss.DNA59606 2101
CATGTCACAGAATACTTGTTACGCATTGTTCAAACCTGAAGGAAATTTCTAATAATCCCGA

*****
P_AAF44202 2101
CATGTCACAGAATACTTGTTACGCATTGTTCAAACCTGAAGGAAATTTCTAATAATCCCGA

ss.DNA59606 2161
ATAATGAACATAGAAATCTATCTCCATAAAATTGAGAGAAGAAGAAGGTGATAAGTGTTGA

*****
P_AAF44202 2161
ATAATGAACATAGAAATCTATCTCCATAAAATTGAGAGAAGAAGAAGGTGATAAGTGTTGA

ss.DNA59606 2221
AAATTAAATGTGATAACCTTTGAACCTTGAATTTTGGAGATGTATTCCCAACAGCAGAAT

*****
P_AAF44202 2221
AAATTAAATGTGATAACCTTTGAACCTTGAATTTTGGAGATGTATTCCCAACAGCAGAAT

ss.DNA59606 2281

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Blast Results A-15

```
GCAACTGTGGGCATTTCTTGTCTTATTTCTTTCCAGAGAACGTGGTTTTTCATTTATTTTT
*****
P_AAF44202 2281
GCAACTGTGGGCATTTCTTGTCTTATTTCTTTCCAGAGAACGTGGTTTTTCATTTATTTTT

ss.DNA59606 2341
CCCTCAAAAGAGAGTCAAATACTGACAGATTCGTTCTAAATATATTGTTTCTGTCATAAA
*****
P_AAF44202 2341
CCCTCAAAAGAGAGTCAAATACTGACAGATTCGTTCTAAATATATTGTTTCTGTCATAAA

ss.DNA59606 2401
ATTATTGTGATTTCTTGATGAGTCATATTACTGTGATTTTCATAATAATGAAGACACCAT
*****
P_AAF44202 2401
ATTATTGTGATTTCTTGATGAGTCATATTACTGTGATTTTCATAATAATGAAGACACCAT

ss.DNA59606 2461
GAATATACTTTTCTTCTATATAGTTCAGCAATGGCCTGAATAGAAGCAACCAGGCACCAT
*****
P_AAF44202 2461
GAATATACTTTTCTTCTATATAGTTCAGCAATGGCCTGAATAGAAGCAACCAGGCACCAT

ss.DNA59606 2521
CTCAGCAATGTTTTCTCTTGTGTAATTATTTGCTCCTTTGAAAATTAAATCACTATTA
*****
P_AAF44202 2521
CTCAGCAATGTTTTCTCTTGTGTAATTATTTGCTCCTTTGAAAATTAAATCACTATTA

ss.DNA59606 2581 ATTACATTAAAAATCAAATTGGATAAAAAAAAAAAAAAAAAAAAA
*****
P_AAF44202 2581 ATTACATTAAAAATCAAATTGGATAAAAAAAAAAAAAAAAAAAAA

>4 P_AAC58382 Human PRO1107 nucleotide sequence SEQ ID NO:43. (2623 bp)
[1 seg]
Score = 2623 (5200 bits), Expect = 0.0
Identities = 2623/2623 (100%), at 1,1-2623,2623, Strand +/-

ss.DNA59606 1
TTGAGCGCAGGTGAGCTCCTGCGCGTTCCGGGGGCGTTCCTCCAGTCACCCTCCCGCCGT
*****
P_AAC58382 1
TTGAGCGCAGGTGAGCTCCTGCGCGTTCCGGGGGCGTTCCTCCAGTCACCCTCCCGCCGT

ss.DNA59606 61
TACCCGCGGCGCGCCCGAGGGAGTCTCCTCCAGACCCTCCCTCCCGTTGCTCCAAACTAA
*****
P_AAC58382 61
TACCCGCGGCGCGCCCGAGGGAGTCTCCTCCAGACCCTCCCTCCCGTTGCTCCAAACTAA

ss.DNA59606 121
TACGGAAGTGAACGGATCGCTGCGAGGGTGGGAGAGAAAATTAGGGGGAGAAAGGACAGAG
*****
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P_AAC58382      121
TACGGACTGAACGGATCGCTGCGAGGGTGGGAGAGAAAATTAGGGGGAGAAAGGACAGAG

ss.DNA59606     181
AGAGCAACTACCATCCATAGCCAGATAGATTATCTTACACTGAACTGATCAAGTACTTTG

*****
P_AAC58382      181
AGAGCAACTACCATCCATAGCCAGATAGATTATCTTACACTGAACTGATCAAGTACTTTG

ss.DNA59606     241
AAAATGACTTCGAAATTTATCTTGGTGTCTTCATACTTGCTGCACTGAGTCTTTCAACC

*****
P_AAC58382      241
AAAATGACTTCGAAATTTATCTTGGTGTCTTCATACTTGCTGCACTGAGTCTTTCAACC

ss.DNA59606     301
ACCTTTTCTCTCCAACCTAGACCAGCAAAGGTTCTACTAGTTTCTTTTGATGGATTCCGT

*****
P_AAC58382      301
ACCTTTTCTCTCCAACCTAGACCAGCAAAGGTTCTACTAGTTTCTTTTGATGGATTCCGT

ss.DNA59606     361
TGGGATTACTTATATAAAGTTCCAACGCCCCATTTTCATTATATTATGAAATATGGTGT

*****
P_AAC58382      361
TGGGATTACTTATATAAAGTTCCAACGCCCCATTTTCATTATATTATGAAATATGGTGT

ss.DNA59606     421
CACGTGAAGCAAGTTACTAATGTTTTTATTACAAAACCTACCCTAACCATTATACTTTG

*****
P_AAC58382      421
CACGTGAAGCAAGTTACTAATGTTTTTATTACAAAACCTACCCTAACCATTATACTTTG

ss.DNA59606     481
GTAAGTGGCCTCTTTGCAGAGAATCATGGGATTGTTGCAAATGATATGTTTGATCCTATT

*****
P_AAC58382      481
GTAAGTGGCCTCTTTGCAGAGAATCATGGGATTGTTGCAAATGATATGTTTGATCCTATT

ss.DNA59606     541
CGGAACAAATCTTTCTCCTTGGATCACATGAATATTTATGATTCCAAGTTTGGGAAGAA

*****
P_AAC58382      541
CGGAACAAATCTTTCTCCTTGGATCACATGAATATTTATGATTCCAAGTTTGGGAAGAA

ss.DNA59606     601
GCGACACCAATATGGATCACAAACCAGAGGGCAGGACATACTAGTGGTGCAGCCATGTGG

*****
P_AAC58382      601
GCGACACCAATATGGATCACAAACCAGAGGGCAGGACATACTAGTGGTGCAGCCATGTGG

ss.DNA59606     661
CCCGAACAGATGTAAAAATACATAAGCGCTTTCCTACTCATTACATGCCTTACAATGAG

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BLAST RESULTS A-17

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*****
P_AAC58382      661
CCCGGAACAGATGTAAAAATACATAAGCGCTTTCCTACTCATTACATGCCTTACAATGAG

ss.DNA59606      721
TCAGTTTCATTTGAAGATAGAGTTGCCAAAATTGTTGAATGGTTTACGTCAAAAGAGCCC

*****
P_AAC58382      721
TCAGTTTCATTTGAAGATAGAGTTGCCAAAATTGTTGAATGGTTTACGTCAAAAGAGCCC

ss.DNA59606      781
ATAAATCTTGGTCTTCTCTATTGGGAAGACCCTGATGACATGGGCCACCATTGTTGGACCT

*****
P_AAC58382      781
ATAAATCTTGGTCTTCTCTATTGGGAAGACCCTGATGACATGGGCCACCATTGTTGGACCT

ss.DNA59606      841
GACAGTCCGCTCATGGGGCCTGTCATTTTCAGATATTGACAAGAAGTTAGGATATCTCATA

*****
P_AAC58382      841
GACAGTCCGCTCATGGGGCCTGTCATTTTCAGATATTGACAAGAAGTTAGGATATCTCATA

ss.DNA59606      901
CAAATGCTGAAAAAGGCAAAGTTGTGGAACACTCTGAACCTAATCATCACAAGTGATCAT

*****
P_AAC58382      901
CAAATGCTGAAAAAGGCAAAGTTGTGGAACACTCTGAACCTAATCATCACAAGTGATCAT

ss.DNA59606      961
GGAATGACGCAGTGCTCTGAGGAAAGGTTAATAGAACTTGACCAGTACCTGGATAAAGAC

*****
P_AAC58382      961
GGAATGACGCAGTGCTCTGAGGAAAGGTTAATAGAACTTGACCAGTACCTGGATAAAGAC

ss.DNA59606     1021
CACTATACCCTGATTGATCAATCTCCAGTAGCAGCCATCTTGCCAAAAGAAGGTAAATTT

*****
P_AAC58382     1021
CACTATACCCTGATTGATCAATCTCCAGTAGCAGCCATCTTGCCAAAAGAAGGTAAATTT

ss.DNA59606     1081
GATGAAGTCTATGAAGCACTAACTCACGCTCATCCTAATCTTACTGTTTACAAAAAAGAA

*****
P_AAC58382     1081
GATGAAGTCTATGAAGCACTAACTCACGCTCATCCTAATCTTACTGTTTACAAAAAAGAA

ss.DNA59606     1141
GACGTTCCAGAAAGGTGGCATTACAAATACAACAGTCGAATTCAACCAATCATAGCAGTG

*****
P_AAC58382     1141
GACGTTCCAGAAAGGTGGCATTACAAATACAACAGTCGAATTCAACCAATCATAGCAGTG

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BLAST RESULTS A-19

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ss.DNA59606 1201
GCTGATGAAGGGTGGCACATTTTACAGAATAAGTCAGATGACTTTCTGTTAGGCAACCAC

*****
P_AAC58382 1201
GCTGATGAAGGGTGGCACATTTTACAGAATAAGTCAGATGACTTTCTGTTAGGCAACCAC

ss.DNA59606 1261
GGTTACGATAATGCGTTAGCAGATATGCATCCAATATTTTATAGCCCATGGTCCTGCCTTC

*****
P_AAC58382 1261
GGTTACGATAATGCGTTAGCAGATATGCATCCAATATTTTATAGCCCATGGTCCTGCCTTC

ss.DNA59606 1321
AGAAAGAATTTCTCAAAGAAGCCATGAACTCCACAGATTTGTACCCACTACTATGCCAC

*****
P_AAC58382 1321
AGAAAGAATTTCTCAAAGAAGCCATGAACTCCACAGATTTGTACCCACTACTATGCCAC

ss.DNA59606 1381
CTCCTCAATATCACTGCCATGCCACACAATGGATCATTCTGGAATGTCCAGGATCTGCTC

*****
P_AAC58382 1381
CTCCTCAATATCACTGCCATGCCACACAATGGATCATTCTGGAATGTCCAGGATCTGCTC

ss.DNA59606 1441
AATTCAGCAATGCCAAGGGTGGTCCCTTATACACAGAGTACTATACTCCTCCCTGGTAGT

*****
P_AAC58382 1441
AATTCAGCAATGCCAAGGGTGGTCCCTTATACACAGAGTACTATACTCCTCCCTGGTAGT

ss.DNA59606 1501
GTTAAACCAGCAGAATATGACCAAGAGGGGGTCATACCCTTATTTTCATAGGGGTCTCTCTT

*****
P_AAC58382 1501
GTTAAACCAGCAGAATATGACCAAGAGGGGGTCATACCCTTATTTTCATAGGGGTCTCTCTT

ss.DNA59606 1561
GGCAGCATTATAGTGATTGTATTTTTTTGTAATTTTCATTAAGCATTTAATTCACAGTCAA

*****
P_AAC58382 1561
GGCAGCATTATAGTGATTGTATTTTTTTGTAATTTTCATTAAGCATTTAATTCACAGTCAA

ss.DNA59606 1621
ATACCTGCCTTACAAGATATGCATGCTGAAATAGCTCAACCATTATTACAAGCCTAATGT

*****
P_AAC58382 1621
ATACCTGCCTTACAAGATATGCATGCTGAAATAGCTCAACCATTATTACAAGCCTAATGT

ss.DNA59606 1681
TACTTTGAAGTGGATTTGCATATTGAAGTGGAGATTCCATAATTATGTCAGTGTTTAAAG

*****
P_AAC58382 1681

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BLAST RESULTS A-19

TAC TTTGAAGTGGATTTGCATATTGAAGTGGAGATTCCATAATTATGTCAGTGTTTAAAG

ss.DNA59606 1741
GTTTCAAATTCTGGGAAACCAGTTCCAAACATCTGCAGAAACCATTAAGCAGTTACATAT

P_AAC58382 1741
GTTTCAAATTCTGGGAAACCAGTTCCAAACATCTGCAGAAACCATTAAGCAGTTACATAT

ss.DNA59606 1801
TTAGGTATACACACACACACACACACATACACACACACGACCAAATACTTACAC

P_AAC58382 1801
TTAGGTATACACACACACACACACACATACACACACACGACCAAATACTTACAC

ss.DNA59606 1861
CTGCAAAGGAATAAAGATGTGAGAGTATGTCTCCATTGTTCACTGTAGCATAGGGATAGA

P_AAC58382 1861
CTGCAAAGGAATAAAGATGTGAGAGTATGTCTCCATTGTTCACTGTAGCATAGGGATAGA

ss.DNA59606 1921
TAAGATCCTGCTTTATTTGGACTTGGCGCAGATAATGTATATATTTAGCAACTTTGCACT

P_AAC58382 1921
TAAGATCCTGCTTTATTTGGACTTGGCGCAGATAATGTATATATTTAGCAACTTTGCACT

ss.DNA59606 1981
ATGTAAAGTACCTTATATATTGCACTTTAAATTTCTCTCCTGATGGGTACTTTAATTTGA

P_AAC58382 1981
ATGTAAAGTACCTTATATATTGCACTTTAAATTTCTCTCCTGATGGGTACTTTAATTTGA

ss.DNA59606 2041
AATGCACTTTATGGACAGTTATGTCTTATAACTTGATTGAAAATGACAACTTTTTGCACC

P_AAC58382 2041
AATGCACTTTATGGACAGTTATGTCTTATAACTTGATTGAAAATGACAACTTTTTGCACC

ss.DNA59606 2101
CATGTCACAGAATACTTGTTACGCATTGTTCAAACCTGAAGGAAATTTCTAATAATCCCGA

P_AAC58382 2101
CATGTCACAGAATACTTGTTACGCATTGTTCAAACCTGAAGGAAATTTCTAATAATCCCGA

ss.DNA59606 2161
ATAATGAACATAGAAATCTATCTCCATAAATTGAGAGAAGAAGAAGGTGATAAGTGTTGA

P_AAC58382 2161
ATAATGAACATAGAAATCTATCTCCATAAATTGAGAGAAGAAGAAGGTGATAAGTGTTGA

ss.DNA59606 2221
AAATTAAATGTGATAACCTTTGAACCTTGAATTTTGGAGATGTATTCCCAACAGCAGAAT

BLAST RESULTS A-20

```

*****
P_AAC58382 2221
AAATTAAATGTGATAACCTTTGAACCTTGAATTTTGGAGATGTATCCCAACAGCAGAAT

ss.DNA59606 2281
GCAACTGTGGGCATTTCTTGTCTTATTTCTTTCCAGAGAACGTGGTTTTTCATTTATTTTT

*****
P_AAC58382 2281
GCAACTGTGGGCATTTCTTGTCTTATTTCTTTCCAGAGAACGTGGTTTTTCATTTATTTTT

ss.DNA59606 2341
CCCTCAAAAGAGAGTCAAATACTGACAGATTCGTTCTAAATATATTGTTTCTGTCATAAA

*****
P_AAC58382 2341
CCCTCAAAAGAGAGTCAAATACTGACAGATTCGTTCTAAATATATTGTTTCTGTCATAAA

ss.DNA59606 2401
ATTATTGTGATTTCTTGATGAGTCATATTACTGTGATTTTCATAATAATGAAGACACCAT

*****
P_AAC58382 2401
ATTATTGTGATTTCTTGATGAGTCATATTACTGTGATTTTCATAATAATGAAGACACCAT

ss.DNA59606 2461
GAATATACTTTTCTTCTATATAGTTCAGCAATGGCCTGAATAGAAGCAACCAGGCACCAT

*****
P_AAC58382 2461
GAATATACTTTTCTTCTATATAGTTCAGCAATGGCCTGAATAGAAGCAACCAGGCACCAT

ss.DNA59606 2521
CTCAGCAATGTTTTCTCTTGTTTGTAATTATTTGCTCCTTTGAAAATTAAATCACTATTA

*****
P_AAC58382 2521
CTCAGCAATGTTTTCTCTTGTTTGTAATTATTTGCTCCTTTGAAAATTAAATCACTATTA

ss.DNA59606 2581 ATTACATTAAAAATCAAATTGGATAAAAAAAAAAAAAAAAAAAAA
*****
P_AAC58382 2581 ATTACATTAAAAATCAAATTGGATAAAAAAAAAAAAAAAAAAAAA

>5 P_AAD12762 Human phosphodiesterase-1 (HPDE-1) cDNA. cDNA, PAT 16-
OCT-2001 (2530 bp) [3 segs]
Score = 2314 (4587 bits), Expect = 0.0 [P_AAD12762, seg 1/3]
Identities = 2350/2361 (99%), Gaps = 2/2361 (0%), at 208,162-2568,2520,
Strand +/+

ss.DNA59606 208
GATTATCTTACACTGAACTGATCAAGTACTTTGAAAATGACTTCGAAATTTATCTTGGTG

*****
P_AAD12762 162
GATTATCTTACACTGAACTGATCAAGTACTTTGAAAATGACTTCGAAATTTATCTTGGTG

ss.DNA59606 268
TCCTTCATACTTGCTGCACTGAGTCTTTCAACCACCTTTTCTCTCCAACTAGACCAGCAA
*****
*****
P_AAD12762 222

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BLAST RESULTS A-21

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TCCTTCATACTTGCTGCACTGAGTCTTTCAACCACCTTTTCTCTCCAACCAGACCAGCAA
ss.DNA59606    328
AAGGTTCTACTAGTTTCTTTTGATGGATTCCGTTGGGATTACTTATATAAAGTTCCAACG
*****
P_AAD12762    282
AAGGTTCTACTAGTTTCTTTTGATGGATTCCGTTGGGATTACTTATATAAAGTTCCAACG

ss.DNA59606    388
CCCCATTTTCATTATATTATGAAATATGGTGTTACGTGAAGCAAGTTACTAATGTTTTT
*****
P_AAD12762    342
CCCATTTTCATTATATTATGAAATATGGTGTTACGTGAAGCAAGTTACTAATGTTTTT

ss.DNA59606    448
ATTACAAAACCTACCCTAACCATTATACTTTGGTAACTGGCCTCTTGCAGAGAATCAT
*****
P_AAD12762    402
ATTACAAAACCTACCCTAACCATTATACTTTGGTAACTGGCCTCTTGCAGAGAATCAT

ss.DNA59606    508
GGGATTGTTGCAAATGATATGTTTGATCCTATTCGGAACAAATCTTCTCCTTGATCAC
*****
P_AAD12762    462
GGGATTGTTGCAAATGATATGTTTGATCCTATTCGGAACAAATCTTCTCCTTGATCAC

ss.DNA59606    568
ATGAATATTTATGATTCCAAGTTTTGGGAAGAAGCGACACCAATATGGATCACAACCAG
*****
P_AAD12762    522
ATGAATATTTATGATTCCAAGTTTTGGGAAGAAGCGACACCAATATGGATCACAACCAG

ss.DNA59606    628
AGGGCAGGACATACTAGTGGTGCAGCCATGTGCCCCGGAACAGATGTAAAATACATAAG
*****
P_AAD12762    582
AGGGCAGGACATACTAGTGGTGCAGCCATGTGCCCCGGAACAGATGTAAAATACATAAG

ss.DNA59606    688
CGCTTTCCTACTCATTACATGCCTTACAATGAGTCAGTTTCATTTGAAGATAGAGTTGCC
*****
P_AAD12762    642
CGCTTTCCTACTCATTACATGCCTTACAATGAGTCAGTTTCATTTGAAGATAGAGTTGCC

ss.DNA59606    748
AAAATTGTTGAATGGTTTACGTCAAAGAGCCCATAAATCTTGGTCTTCTCTATTGGGAA
*****
*****
P_AAD12762    702
AAAATTATTGAATGGTTTACGTCAAAGAGCCCATAAATCTTGGTCTTCTCTATTGGGAA

ss.DNA59606    808
GACCCTGATGACATGGGCCACCATTGGGACCTGACAGTCCGCTCATGGGGCCTGTCATT

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BLAST RESULTS A-22

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*****
P_AAD12762      762
GACCTGATGACATGGGCCACCATTTGGGACCTGACAGTCCGCTCATGGGGCCTGTCATT

ss.DNA59606      868
TCAGATATTGACAAGAAGTTAGGATATCTCATACAAATGCTGAAAAGGCAAAGTTGTGG

*****
P_AAD12762      822
TCAGATATTGACAAGAAGTTAGGATATCTCATACAAATGCTGAAAAGGCAAAGTTGTGG

ss.DNA59606      928
AACACTCTGAACCTAATCATCACAAGTGATCATGGAATGACGCAGTGCTCTGAGGAAAGG

*****
P_AAD12762      882
AACACTCTGAACCTAATCATCACAAGTGATCATGGAATGACGCAGTGCTCTGAGGAAAGG

ss.DNA59606      988
TTAATAGAACTTGACCAGTACCTGGATAAAGACCACTATACCCTGATTGATCAATCTCCA

*****
P_AAD12762      942
TTAATAGAACTTGACCAGTACCTGGATAAAGACCACTATACCCTGATTGATCAATCTCCA

ss.DNA59606     1048
GTAGCAGCCATCTTGCCAAAAGAAGGTAAATTTGATGAAGTCTATGAAGCACTAACTCAC

*****
P_AAD12762     1002
GTAGCAGCCATCTTGCCAAAAGAAGGTAAATTTGATGAAGTCTATGAAGCACTAACTCAC

ss.DNA59606     1108
GCTCATCCTAATCTTACTGTTTACAAAAAGAAGACGTTCCAGAAAGGTGGCATTACAAA

*****
P_AAD12762     1062
GCTCATCCTAATCTTACTGTTTACAAAAAGAAGACGTTCCAGAAAGGTGGCATTACAAA

ss.DNA59606     1168
TACAACAGTCGAATTCACCAATCATAGCAGTGGCTGATGAAGGGTGGCACATTTTACAG

*****
P_AAD12762     1122
TACAACAGTCGAATTCACCAATCATAGCAGTGGCTGATGAAGGGTGGCACATTTTACAG

ss.DNA59606     1228
AATAAGTCAGATGACTTTCTGTTAGGCAACCACGGTTACGATAATGCGTTAGCAGATATG

*****
P_AAD12762     1182
AATAAGTCAGATGACTTTCTGTTAGGCAACCACGGTTACGATAATGCGTTAGCAGATATG

ss.DNA59606     1288
CATCCAATATTTTTAGCCCATGGTCCTGCCTTCAGAAAGAATTTCTCAAAAGAAGCCATG

*****
P_AAD12762     1242
CATCCAATATTTTTAGCCCATGGTCCTGCCTTCAGAAAGAATTTCTCAAAAGAAGCCATG

ss.DNA59606     1348

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BLAST RESULTS A-23

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AACTCCACAGATTTGTACCCACTACTATGCCACCTCCTCAATATCACTGCCATGCCACAC
*****
*****
P_AAD12762 1302
AACTCCACAGATTTGTACCCACTACTATGCCACCTCCTCAATATCACCGCCATGCCACAC

ss.DNA59606 1408
AATGGATCATTCTGGAATGTCCAGGATCTGCTCAATTCAGCAATGCCAAGGGTGGTCCCT

*****
P_AAD12762 1362
AATGGATCATTCTGGAATGTCCAGGATCTGCTCAATTCAGCAATGCCAAGGGTGGTCCCT

ss.DNA59606 1468
TATACACAGAGTACTATACTCCTCCCTGGTAGTGTTAAACCAGCAGAATATGACCAAGAG

*****
P_AAD12762 1422
TATACACAGAGTACTATACTCCTCCCTGGTAGTGTTAAACCAGCAGAATATGACCAAGAG

ss.DNA59606 1528
GGGTCATACCCTTATTTTCATAGGGGTCTCTCTTGGCAGCATTATAGTGATTGTATTTTTT

*****
P_AAD12762 1482
GGGTCATACCCTTATTTTCATAGGGGTCTCTCTTGGCAGCATTATAGTGATTGTATTTTTT

ss.DNA59606 1588
GTAATTTTCATTAAGCATTTAATTCACAGTCAAATACCTGCCTTACAAGATATGCATGCT

*****
P_AAD12762 1542
GTAATTTTCATTAAGCATTTAATTCACAGTCAAATACCTGCCTTACAAGATATGCATGCT

ss.DNA59606 1648
GAAATAGCTCAACCATTATTACAAGCCTAATGTTACTTTGAAGTGGATTTCATATTGAA

*****
P_AAD12762 1602
GAAATAGCTCAACCATTATTACAAGCCTAATGTTACTTTGAAGTGGATTTCATATTGAA

ss.DNA59606 1708
GTGGAGATTCATAATTATGTCAGTGTTTAAAGGTTTCAAATTCTGGGAAACCAGTTCCA

*****
P_AAD12762 1662
GTGGAGATTCATAATTATGTCAGTGTTTAAAGGTTTCAAATTCTGGGAAACCAGTTCCA

ss.DNA59606 1768
AACATCTGCAGAAACCATTAAGCAGTTACATATTTAGGTATACACACACACACACACACA
*****
*****
P_AAD12762 1722 AACATTTGCAGAAACCATTAAGCAGTTACATATTTAGGTAT--
ACACACACACACACACA

ss.DNA59606 1828
CACATACACACACACGGACCAAAATACTTACACCTGCAAAGGAATAAAGATGTGAGAGTA

*****
P_AAD12762 1780
CACATACACACACACGGACCAAAATACTTACACCTGCAAAGGAATAAAGATGTGAGAGTA

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BLAST RESULTS A-24

ss.DNA59606 1888
TGTCTCCATTGTTCACTGTAGCATAGGGATAGATAAGATCCTGCTTTATTTGGACTTGGC

P_AAD12762 1840
TGTCTCCATTGTTCACTGTAGCATAGGGATAGATAAGATCCTGCTTTATTTGGACTTGGC

ss.DNA59606 1948
GCAGATAATGTATATATTTAGCAACTTTGCACTATGTAAAGTACCTTATATATTGCACTT

P_AAD12762 1900
GCAGATAATGTATATATTTAGCAACTTTGCACTATGTAAAGTACCTTATGTATTGCACTT

ss.DNA59606 2008
TAAATTTCTCTCCTGATGGGTACTTTAATTTGAAATGCACTTTATGGACAGTTATGTCTT

P_AAD12762 1960
TAAATTTCTCTCCTGATGGGTACTTTAATTTGAAATGCACTTTATGCACAGTTATGTCTT

ss.DNA59606 2068
ATAACTTGATTGAAAATGACAACCTTTTTGCACCCATGTCACAGAATACTTGTTACGCATT

P_AAD12762 2020
ATAACTTGATTGAAAATGACAACCTTTTTGCACCCATGTCACAGAATACTTGTTACGCATT

ss.DNA59606 2128
GTTCAAACCTGAAGGAAATTTCTAATAATCCCGAATAATGAACATAGAAATCTATCTCCAT

P_AAD12762 2080
GTTCAAACCTGAAGGAAATTTCTAATAATCCCGAATAATGAACGTAGAAATCTATCTCCAT

ss.DNA59606 2188
AAATTGAGAGAAGAAGAAGGTGATAAGTGTTGAAAATTAAATGTGATAACCTTTGAACCT

P_AAD12762 2140
AAATTGAGAGAAGAAGAAGGTGATAAGTGTTGAAAATTAAATGTGATAACCTTTGAACCT

ss.DNA59606 2248
TGAATTTTGGAGATGTATTCCCAACAGCAGAATGCAACTGTGGGCATTTCTTGTCTTATT

P_AAD12762 2200
TGAATTTTGGAGATGTATTCCCAACAGCAGAATGCAACTGTGGGCATTTCTTGTCTTATT

ss.DNA59606 2308
TCTTTCCAGAGAACGTGGTTTTCATTTATTTTTCCCTCAAAGAGAGTCAAATACTGACA

P_AAD12762 2260
TCTTTCCAGAGAACGTGGTTTTCATTTATTTTTCCCTCAAAGAGAGTCAAATACTGACA

ss.DNA59606 2368
GATTCGTTCTAAATATATTGTTTCTGTCATAAAATTATTGTGATTTCCTGATGAGTCATA

BLAST RESULTS A-25

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P_AAD12762    2320
GATTTCGTTCTAAATATATTGTTTCTGTCATAAAATTATTGTGATTCCTGATGAGTCATA

ss.DNA59606    2428
TTACTGTGATTTTCATAATAATGAAGACACCATGAATATACTTTTCTTCTATATAGTTCA
*****
P_AAD12762    2380
TTACTGTGATTTTCATAATAATGAAGACACCATGAATATACTTTTTTCTATATAGTTCA

ss.DNA59606    2488
GCAATGGCCTGAATAGAAGCAACCAGGCACCATCTCAGCAATGTTTCTCTTGTGTTGTAA
*****
P_AAD12762    2440
GCAATGGCCTGAATAGAAGCAACCAGGCACCATCTCAGCAATGTTTCTCTTGTGTTGTAA

ss.DNA59606    2548 TTATTTGCTCCTTTGAAAATT
*****
P_AAD12762    2500 TTATTTGCTCCTTTGAGAATT

Score = 146 (289 bits), Expect = 2e-75 [P_AAD12762, seg 2/3]
Identities = 146/146 (100%), at 1,17-146,162, Strand +/-

ss.DNA59606    1
TTGAGCGCAGGTGAGCTCCTGCGCGTTCCGGGGGCGTTCCCTCCAGTCACCCTCCCGCCGT
*****
P_AAD12762    17
TTGAGCGCAGGTGAGCTCCTGCGCGTTCCGGGGGCGTTCCCTCCAGTCACCCTCCCGCCGT

ss.DNA59606    61
TACCCGCGGCGCGCCCCGAGGGAGTCTCCTCCAGACCCTCCCTCCCGTTGCTCCAAACTAA
*****
P_AAD12762    77
TACCCGCGGCGCGCCCCGAGGGAGTCTCCTCCAGACCCTCCCTCCCGTTGCTCCAAACTAA

ss.DNA59606    121 TACGGACTGAACGGATCGCTGCGAGG
*****
P_AAD12762    137 TACGGACTGAACGGATCGCTGCGAGG

>6 AX206904 Sequence 4 from Patent WO0155358. DNA, PAT 30-AUG-2001
(2530 bp) [2 segs]
Score = 2314 (4587 bits), Expect = 0.0 [AX206904, seg 1/2]
Identities = 2350/2361 (99%), Gaps = 2/2361 (0%), at 208,162-2568,2520,
Strand +/-

ss.DNA59606    208
GATTATCTTACACTGAAGTCAAGTACTTTGAAAATGACTTCGAAATTTATCTTGGTG
*****
AX206904    162
GATTATCTTACACTGAAGTCAAGTACTTTGAAAATGACTTCGAAATTTATCTTGGTG

ss.DNA59606    268
TCCTTCATACTTGCTGCACTGAGTCTTTCAACCACCTTTTCTCTCCAAGTAGACCAGCAA
*****
*****
AX206904    222

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BLAST RESULTS A-26

TCCTTCATACTTGCTGCACTGAGTCTTTCAACCACCTTTTCTCTCCAACCAGACCAGCAA

ss.DNA59606 328
AAGGTTCTACTAGTTTCTTTTGATGGATTCCGTTGGGATTACTTATATAAAGTTCCAACG

AX206904 282
AAGGTTCTACTAGTTTCTTTTGATGGATTCCGTTGGGATTACTTATATAAAGTTCCAACG

ss.DNA59606 388
CCCCATTTTCATTATATTATGAAATATGGTGTTCACGTGAAGCAAGTTACTAATGTTTTT

AX206904 342
CCCCATTTTCATTATATTATGAAATATGGTGTTCACGTGAAGCAAGTTACTAATGTTTTT

ss.DNA59606 448
ATTACAAAACCTACCCTAACCATTATACTTTGGTAACTGGCCTCTTTGCAGAGAATCAT

AX206904 402
ATTACAAAACCTACCCTAACCATTATACTTTGGTAACTGGCCTCTTTGCAGAGAATCAT

ss.DNA59606 508
GGGATTGTTGCAAATGATATGTTTGATCCTATTTCGGAACAAATCTTCTCCTTGGATCAC

AX206904 462
GGGATTGTTGCAAATGATATGTTTGATCCTATTTCGGAACAAATCTTCTCCTTGGATCAC

ss.DNA59606 568
ATGAATATTTATGATTCCAAGTTTGGGAAGAAGCGACACCAATATGGATCACAAACCAG

AX206904 522
ATGAATATTTATGATTCCAAGTTTGGGAAGAAGCGACACCAATATGGATCACAAACCAG

ss.DNA59606 628
AGGGCAGGACATACTAGTGGTGCAGCCATGTGGCCCGGAACAGATGTAAAATACATAAG

AX206904 582
AGGGCAGGACATACTAGTGGTGCAGCCATGTGGCCCGGAACAGATGTAAAATACATAAG

ss.DNA59606 688
CGCTTTCCTACTCATTACATGCCTTACAATGAGTCAGTTTCATTTGAAGATAGAGTTGCC

AX206904 642
CGCTTTCCTACTCATTACATGCCTTACAATGAGTCAGTTTCATTTGAAGATAGAGTTGCC

ss.DNA59606 748
AAAATTGTTGAATGGTTTACGTCAAAAGAGCCCATAAATCTTGGTCTTCTCTATTGGGAA

AX206904 702
AAAATTATTGAATGGTTTACGTCAAAAGAGCCCATAAATCTTGGTCTTCTCTATTGGGAA

ss.DNA59606 808
GACCTGATGACATGGGCCACCATTGGGGACCTGACAGTCCGCTCATGGGGCCTGTCATT

BLAST RESULTS A-27

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*****
AX206904      762
GACCCTGATGACATGGGCCACCATTGTTGGGACCTGACAGTCCGCTCATGGGGCCTGTCATT

ss.DNA59606    868
TCAGATATTGACAAGAAGTTAGGATATCTCATACAAATGCTGAAAAAGGCAAAGTTGTGG

*****
AX206904      822
TCAGATATTGACAAGAAGTTAGGATATCTCATACAAATGCTGAAAAAGGCAAAGTTGTGG

ss.DNA59606    928
AACACTCTGAACCTAATCATCACAAAGTGATCATGGAATGACGCAGTGCTCTGAGGAAAGG

*****
AX206904      882
AACACTCTGAACCTAATCATCACAAAGTGATCATGGAATGACGCAGTGCTCTGAGGAAAGG

ss.DNA59606    988
TTAATAGAACTTGACCAGTACCTGGATAAAGACCACTATACCCTGATTGATCAATCTCCA

*****
AX206904      942
TTAATAGAACTTGACCAGTACCTGGATAAAGACCACTATACCCTGATTGATCAATCTCCA

ss.DNA59606   1048
GTAGCAGCCATCTTGCCAAAAGAAGGTAAATTTGATGAAGTCTATGAAGCACTAACTCAC

*****
AX206904     1002
GTAGCAGCCATCTTGCCAAAAGAAGGTAAATTTGATGAAGTCTATGAAGCACTAACTCAC

ss.DNA59606   1108
GCTCATCCTAATCTTACTGTTTACAAAAAAGAAGACGTTCCAGAAAGGTGGCATTACAAA

*****
AX206904     1062
GCTCATCCTAATCTTACTGTTTACAAAAAAGAAGACGTTCCAGAAAGGTGGCATTACAAA

ss.DNA59606   1168
TACAACAGTCGAATTCAACCAATCATAGCAGTGGCTGATGAAGGGTGGCACATTTTACAG

*****
AX206904     1122
TACAACAGTCGAATTCAACCAATCATAGCAGTGGCTGATGAAGGGTGGCACATTTTACAG

ss.DNA59606   1228
AATAAGTCAGATGACTTTCTGTTAGGCAACCACGGTTACGATAATGCGTTAGCAGATATG

*****
AX206904     1182
AATAAGTCAGATGACTTTCTGTTAGGCAACCACGGTTACGATAATGCGTTAGCAGATATG

ss.DNA59606   1288
CATCCAATATTTTTAGCCCATGGTCCTGCCTTCAGAAAGAATTTCTCAAAGAAGCCATG

*****
AX206904     1242
CATCCAATATTTTTAGCCCATGGTCCTGCCTTCAGAAAGAATTTCTCAAAGAAGCCATG

ss.DNA59606   1348

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BLAST RESULTS A-20

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AACTCCACAGATTTGTACCCACTACTATGCCACCTCCTCAATATCACTGCCATGCCACAC
*****
*****
AX206904      1302
AACTCCACAGATTTGTACCCACTACTATGCCACCTCCTCAATATCACCGCCATGCCACAC

ss.DNA59606    1408
AATGGATCATTCTGGAATGTCCAGGATCTGCTCAATTCAGCAATGCCAAGGGTGGTCCCT

*****
AX206904      1362
AATGGATCATTCTGGAATGTCCAGGATCTGCTCAATTCAGCAATGCCAAGGGTGGTCCCT

ss.DNA59606    1468
TATACACAGAGTACTATACTCCTCCCTGGTAGTGTTAAACCAGCAGAATATGACCAAGAG

*****
AX206904      1422
TATACACAGAGTACTATACTCCTCCCTGGTAGTGTTAAACCAGCAGAATATGACCAAGAG

ss.DNA59606    1528
GGGTCATACCCTTATTTTCATAGGGGTCTCTCTTGGCAGCATTATAGTGATTGTATTTTTT

*****
AX206904      1482
GGGTCATACCCTTATTTTCATAGGGGTCTCTCTTGGCAGCATTATAGTGATTGTATTTTTT

ss.DNA59606    1588
GTAATTTTCATTAAAGCATTTAATTCACAGTCAAATACCTGCCTTACAAGATATGCATGCT

*****
AX206904      1542
GTAATTTTCATTAAAGCATTTAATTCACAGTCAAATACCTGCCTTACAAGATATGCATGCT

ss.DNA59606    1648
GAAATAGCTCAACCATTATTACAAGCCTAATGTTACTTTGAAGTGGATTTCATATTGAA

*****
AX206904      1602
GAAATAGCTCAACCATTATTACAAGCCTAATGTTACTTTGAAGTGGATTTCATATTGAA

ss.DNA59606    1708
GTGGAGATTCCATAATTATGTCAGTGTTTAAAGGTTTCAAATTCTGGGAAACCAGTTCCA

*****
AX206904      1662
GTGGAGATTCCATAATTATGTCAGTGTTTAAAGGTTTCAAATTCTGGGAAACCAGTTCCA

ss.DNA59606    1768
AACATCTGCAGAAACCATTAAGCAGTTACATATTTAGGTATACACACACACACACACA
*****
*****
AX206904      1722 AACATTTGCAGAAACCATTAAGCAGTTACATATTTAGGTAT--
ACACACACACACACACA

ss.DNA59606    1828
CACATACACACACACGGACCAAATACTTACACCTGCAAAGGAATAAAGATGTGAGAGTA

*****
AX206904      1780
CACATACACACACACGGACCAAATACTTACACCTGCAAAGGAATAAAGATGTGAGAGTA

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BLAST RESULTS A-29

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ss.DNA59606 1888
TGTCTCCATTGTTCACTGTAGCATAGGGATAGATAAGATCCTGCTTTATTTGGACTTGGC
*****
AX206904 1840
TGTCTCCATTGTTCACTGTAGCATAGGGATAGATAAGATCCTGCTTTATTTGGACTTGGC

ss.DNA59606 1948
GCAGATAATGTATATATTTAGCAACTTTGCACTATGTAAAGTACCTTATATATTGCACTT
*****
*****
AX206904 1900
GCAGATAATGTATATATTTAGCAACTTTGCACTATGTAAAGTACCTTATGTATTGCACTT

ss.DNA59606 2008
TAAATTTCTCTCCTGATGGGTACTTTAATTTGAAATGCACTTTATGGACAGTTATGTCTT
*****
*****
AX206904 1960
TAAATTTCTCTCCTGATGGGTACTTTAATTTGAAATGCACTTTATGCACAGTTATGTCTT

ss.DNA59606 2068
ATAACTTGATTGAAAAATGACAACTTTTTGCACCCATGTCACAGAATACTTGTTACGCATT
*****
AX206904 2020
ATAACTTGATTGAAAAATGACAACTTTTTGCACCCATGTCACAGAATACTTGTTACGCATT

ss.DNA59606 2128
GTTCAAACCTGAAGGAAATTTCTAATAATCCCGAATAATGAACATAGAAATCTATCTCCAT
*****
*****
AX206904 2080
GTTCAAACCTGAAGGAAATTTCTAATAATCCCGAATAATGAACGTAGAAATCTATCTCCAT

ss.DNA59606 2188
AAATTGAGAGAAGAAGAAGGTGATAAGTGTTGAAAATTAAATGTGATAACCTTTGAACCT
*****
AX206904 2140
AAATTGAGAGAAGAAGAAGGTGATAAGTGTTGAAAATTAAATGTGATAACCTTTGAACCT

ss.DNA59606 2248
TGAATTTTGGAGATGTATTCCCAACAGCAGAATGCAACTGTGGGCATTTCTTGTCTTATT
*****
AX206904 2200
TGAATTTTGGAGATGTATTCCCAACAGCAGAATGCAACTGTGGGCATTTCTTGTCTTATT

ss.DNA59606 2308
TCTTTCCAGAGAACGTGGTTTTTCATTTATTTTTCCCTCAAAGAGAGTCAAATACTGACA
*****
AX206904 2260
TCTTTCCAGAGAACGTGGTTTTTCATTTATTTTTCCCTCAAAGAGAGTCAAATACTGACA

ss.DNA59606 2368
GATTCGTTCTAAATATATTGTTTCTGTCATAAAATTATTGTGATTTCCTGATGAGTCATA
*****

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BLAST RESULTS A-30

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AX206904      2320
GATTCGTTCTAAATATATTGTTTCTGTCATAAAATTATTGTGATTCCTGATGAGTCATA

ss.DNA59606   2428
TTACTGTGATTTTCATAAATAATGAAGACACCATGAATATACTTTTCTTCTATATAGTTCA
*****
*****
AX206904      2380
TTACTGTGATTTTCATAAATAATGAAGACACCATGAATATACTTTTTTCTATATAGTTCA

ss.DNA59606   2488
GCAATGGCCTGAATAGAAGCAACCAGGCACCATCTCAGCAATGTTTTCTTGTGTTGTAA
*****
AX206904      2440
GCAATGGCCTGAATAGAAGCAACCAGGCACCATCTCAGCAATGTTTTCTTGTGTTGTAA

ss.DNA59606   2548 TTATTTGCTCCTTTGAAAATT
*****
AX206904      2500 TTATTTGCTCCTTTGAGAATT

Score = 146 (289 bits), Expect = 5e-75 [AX206904, seg 2/2]
Identities = 146/146 (100%), at 1,17-146,162, Strand +/-

ss.DNA59606   1
TTGAGCGCAGGTGAGCTCCTGCGCGTTCCGGGGGCGTTCCCTCCAGTCACCCCTCCCGCCGT
*****
AX206904      17
TTGAGCGCAGGTGAGCTCCTGCGCGTTCCGGGGGCGTTCCCTCCAGTCACCCCTCCCGCCGT

ss.DNA59606   61
TACCCGCGGCGCGCCCCGAGGGAGTCTCCTCCAGACCCCTCCCTCCCGTTGCTCCAAACTAA
*****
AX206904      77
TACCCGCGGCGCGCCCCGAGGGAGTCTCCTCCAGACCCCTCCCTCCCGTTGCTCCAAACTAA

ss.DNA59606   121 TACGGAAGTGAACGGATCGCTGCGAGG
*****
AX206904      137 TACGGAAGTGAACGGATCGCTGCGAGG

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BLAST RESULTS A-31